

## Abstract

The invention relates to a common rail injector for injecting fuel in a common rail injection system of an internal combustion engine, having an injector housing (1), which communicates with a central high-pressure reservoir and in which a nozzle needle is axially displaceable in order to adjust the injection as a function of the pressure in a control chamber, and having a sealing element (6), which is disposed in an annular chamber (3) that is provided between a valve element (2) and the injector housing (1).

To lengthen the service life, in addition to the sealing element (6), a support device (7) is disposed in the annular chamber (3) between the valve element (2) and the injector housing (1).

(Fig. 1)